

State of California
California Energy Commission
Minutes of the July 13, 2016, Energy Commission Business Meeting

The meeting was called to order by Chair Weisenmiller. The Pledge of Allegiance was led by Chair Weisenmiller.

Present:

Robert B. Weisenmiller, Chair
Karen Douglas, Commissioner
J. Andrew McAllister, Commissioner

David Hochschild, Commissioner
Janea A. Scott, Commissioner

The Public Adviser presented the 2016 Summer Institute on Energy, Law and Policy students to the Commissioners. The Commission honored Suzanne Korosec and Roger Johnson with resolutions celebrating their career and contributions to the California Energy Commission.

1. CONSENT CALENDAR. (Items on the Consent Calendar will be taken up and voted on as a group. A commissioner may request that an item be moved and discussed later in the meeting.)
 - a. CLEAN ENERGY STATES ALLIANCE, INC. Proposed resolution approving Agreement 500-16-001 with Clean Energy States Alliance, Inc. (CESA) for a \$50,000 contract to renew the Energy Commission's membership for one year, from July 1, 2016 through June 30, 2017. CESA is a unique multistate collaboration of public clean energy funds and state agencies working together to develop and promote clean energy and low-carbon technologies and expand the market for these technologies. (ERPA funding) Contact: Adam Van Winkle.

Commissioner Douglas moved and Commissioner McAllister seconded approval of Item 1a. The vote was unanimous (5-0).

2. ENERGY COMMISSION COMMITTEE APPOINTMENTS. Possible approval of appointments to the Energy Commission's Standing Committees and Siting Case Committees. Contact: Kevin Barker. (5 minutes)

Item 2 was held. No action taken.

3. ORANGE GROVE ENERGY POWER PROJECT (08-AFC-04C). Proposed order approving the petition to amend the California Energy Commission Decision. The modifications proposed in the petition would change several air quality conditions of certification to allow the installation of like-kind replacement of some components of the emission control systems to restore worn parts and to optimize the design of system components where needed to improve resistance to wear and long-term reliability. Contact: Joseph Douglas. (Staff presentation: 5 minutes)

Commissioner Douglas moved and Commissioner Scott seconded approval of Item 3. The vote was unanimous (5-0).

4. PALMDALE ENERGY PROJECT (Licensed as Palmdale Hybrid Power Project) (08-AFC-09C). Proposed order approving the petition to extend the start of construction

deadline for approximately 9 months, from August 10, 2016 to June 1, 2017. Contact: Eric Veerkamp. (Staff presentation: 5 minutes).

Commissioner Douglas moved and Commissioner Hochschild seconded approval of Item 4. The vote was unanimous (5-0).

5. CAMPBELL COGENERATION PROJECT (93-AFC-03C). Proposed order approving the petition to: (1) provide an option to replace the use of potable water with recycled water in the cooling tower when available in suitable quantities and quality; (2) construct additional water treatment facilities; (3) increase discharge amounts to the City of Sacramento's sanitary sewer system, resulting from the use of recycled water; and (4) add a small metering building adjacent to the chemical storage area. Contact: Mary Dyas. (Staff presentation: 5 minutes)

Commissioner Douglas moved and Commissioner McAllister seconded approval of Item 5. The vote was unanimous (5-0).

6. PROPOSITION 39: CALIFORNIA CLEAN ENERGY JOBS ACT. Possible approval of a resolution adopting substantive changes to the Proposition 39: California Clean Energy Jobs Act 2016 Program Implementation Guidelines. Proposed amendments: clarify language for better understanding; changes the savings to investment ratio (SIR), allow for an alternative electric rate for applicants with First Preference Federal power rates, and change the zero net energy alternative for LEAs with school sites that are zero net energy; change one of the terms and conditions for Power Purchase Agreements and make changes to provisions governing eligible energy measures. Contact: Elizabeth Shirakh. (Staff presentation: 5 minutes)

Commissioner McAllister moved and Commissioner Scott seconded approval of Item 6. The vote was unanimous (5-0).

7. EXECUTIVE ORDER B-37-16 -- PROPOSED ORDER INSTITUTING INFORMATIONAL PROCEEDING. Proposed Order Instituting Informational Proceeding to collect information on the Energy Commission's implementation of Executive Order B-37-16, related to the drought. Under the Executive Order, the Energy Commission is directed to certify innovative water conservation and water loss detection and control technologies that also increase energy efficiency. Contact: Kristen Driskell. (Staff presentation: 5 minutes)

Commissioner McAllister moved and Commissioner Hochschild seconded approval of Item 7. The vote was unanimous (5-0).

8. POWER SOURCE DISCLOSURE PROGRAM IMPLEMENTATION RULEMAKING (14-OIR-01). Possible approval of a resolution re-adopting proposed modifications to existing regulations governing the Power Source Disclosure Program and a finding that the proposed regulations are exempt from the California Environmental Quality Act. Along with implementing statutory changes, the modifications include changes that were not clearly identified in previous publications of the regulations. Contact: Kevin Chou. (Staff presentation: 5 minutes)

Commissioner Hochschild moved and Commissioner McAllister seconded approval of Item 8. The vote was unanimous (5-0).

9. RENEWABLES PORTFOLIO STANDARD 2011-2013 RETAIL SELLERS PROCUREMENT VERIFICATION LEAD COMMISSIONER REPORT (RPS 2011-2013 VERIFICATION REPORT). Possible approval of a resolution adopting the RPS 2011-2013 Verification Report. The RPS 2011-2013 Verification Report details the Energy

Commission's RPS procurement verification findings for select retail sellers of electricity under California's RPS for the years 2011, 2012, and 2013. The California Public Utilities Commission uses the Energy Commission's verification findings to determine retail sellers' RPS compliance. Contact: Theresa Daniels. (Staff presentation: 5 minutes)

Commissioner Hochschild moved and Commissioner Douglas seconded approval of Item 9. The vote was unanimous (5-0).

10. COUNTY OF SONOMA. Proposed resolution approving Agreement 001-16-ECD with County of Sonoma for a \$410,805 Energy Conservation Assistance Act loan at one percent simple interest to install a 93 kW DC rooftop solar PV system at a county owned fleet operations facility. Total project cost is estimated at \$487,963 with the county paying the difference. The simple loan repayment term is calculated at 17 years. The completed project will reduce about 119,316 kWh of grid electricity consumption annually saving the county about \$24,165 in annual utility costs. In addition, the project will reduce about 41 tons of carbon dioxide equivalent (CO₂e) GHG emissions annually. Contact: Brian Samuelson. (Staff presentation: 5 minutes)

Commissioner McAllister moved and Commissioner Hochschild seconded approval of Item 10. The vote was unanimous (5-0).

11. WOODLAKE UNIFIED SCHOOL DISTRICT. Proposed resolution approving Agreement 001-16-ECG with Woodlake Unified School District for a \$1,000,000 Energy Conservation Assistance Act-Education loan at zero percent simple interest to install 324.4 kW DC rooftop-mounted PV panels at the District's Maintenance, Operations, and Transportation facility. The simple loan repayment term is calculated at 15 years. The completed project will reduce about 526,600 kWh of grid electricity consumption annually saving the District about \$66,420 in utility costs. In addition, the project will reduce about 182 tons of CO₂e GHG emissions annually. Contact: Shahid Chaudhry. (Staff presentation: 5 minutes)

Commissioner McAllister moved and Commissioner Scott seconded approval of Item 11. The vote was unanimous (5-0).

12. REDUCING COSTS FOR COMMUNITIES AND BUSINESSES THROUGH INTEGRATED DEMAND-SIDE MANAGEMENT AND ZERO NET ENERGY DEMONSTRATIONS, GFO-15-308. This solicitation sought proposals to fund integrated technologies, strategies, and demonstrations that emphasize innovative energy efficiency packages to achieve whole building performance improvements that help overcome technical, economic, and other market barriers that prevent achievement of state policy goals. (EPIC funding) Contact: Dustin Davis. (Staff presentation: 10 minutes)
 - a. GAS TECHNOLOGY INSTITUTE. Proposed resolution approving Agreement EPC-16-001 with Institute of Gas Technology dba Gas Technology Institute for a \$1,000,000 grant to develop and test advanced integrated packages of energy efficiency measures that aim to achieve zero net energy (ZNE) in new affordable housing. Project results will be shared with the building community and other key stakeholders to help increase adoption of ZNE homes, including in disadvantaged communities.
 - b. DOE-LAWRENCE BERKELEY NATIONAL LABORATORY. Proposed resolution approving Agreement EPC-16-002 with the Department of Energy's Lawrence Berkeley National Laboratory for a \$1,000,000 grant to investigate the benefits, feasibility and cost effectiveness of all-electric new construction ZNE homes in comparison to dual-fuel new construction ZNE homes with gas and

electricity. This agreement will also assess the viability of off-site renewable power for meeting ZNE goals.

- c. UNIVERSITY OF CALIFORNIA, DAVIS. Proposed resolution approving Agreement EPC-16-003 with the Regents of the University of California, on behalf of the Davis campus, for a \$1,999,089 grant to develop and test an integrated building control strategy that includes lighting, daylight harvesting, dynamic fenestration management, and HVAC controls to increase energy efficiency, reduce peak demand, and improve occupant comfort.
- d. DOE-LAWRENCE BERKELEY NATIONAL LABORATORY. Proposed resolution approving Agreement EPC-16-004 with the Department of Energy's Lawrence Berkeley National Laboratory for a \$2,000,000 grant to develop and test cost-effective packages of innovative, whole-building integrated systems and controls to achieve ZNE performance for small commercial office retrofits. The advanced retrofit package will be pilot tested in a San Francisco building. Lessons learned will be disseminated through an online tool that will be publicly available.
- e. UNIVERSITY OF CALIFORNIA, DAVIS. Proposed resolution approving Agreement EPC-16-005 with the Regents of the University of California, on behalf of the Davis campus' Western Cooling Efficiency Center for a \$1,200,000 grant to test three innovative cooling and ventilation technologies for existing single family homes including building envelope sealing, smart mechanical ventilation and compressor-free evaporative air conditioning.
- f. UNIVERSITY OF CALIFORNIA, DAVIS. Proposed resolution approving Agreement EPC-16-007 with the Regents of the University of California, on behalf of the Davis campus for a \$1,000,000 grant to fund the development of EnergyPlus models, simulation automation, and cost-effectiveness analyses to determine the optimal strategy for achieving ZNE in multifamily and commercial buildings.

Regarding Item 12c, e and f, Commissioner McAllister disclosed that his wife is a professor at UC Davis King Hall. Commissioner McAllister moved and Commissioner Scott seconded approval of Item 12. The vote was unanimous (5-0).

13. ADVANCING WATER AND ENERGY EFFICIENT STRATEGIES AND TECHNOLOGIES IN CALIFORNIA, GFO-15-317. This solicitation sought proposals to: (1) conduct research to identify, test, evaluate and demonstrate innovative technologies and strategies that will result in both water and energy savings and will overcome barriers to large scale deployment; and (2) develop innovative and replicable approaches for accelerating the deployment of drought resilient strategies that minimize the need for new water related energy infrastructure. (EPIC funding) Contact: Kevin Mori. (Staff presentation: 5 minutes)
- a. ES ENGINEERING SERVICES, LLC. Proposed resolution approving Agreement EPC-16-006 with ES Engineering Services, LLC for a \$986,262 grant to fund the testing of an innovative, low energy, zero-liquid discharge water treatment system using an adsorption process to remove arsenic and other contaminants from ground water.

Commissioner Douglas moved and Commissioner McAllister seconded approval of Item 13. The vote was unanimous (5-0).

14. **Minutes:** Possible approval of the June 14, 2016 Business Meeting minutes.

*Commissioner Douglas moved and Commissioner Scott seconded approval of Item 14.
Commissioner McAllister abstained. The vote was 4-0.*

15. **Lead Commissioner or Presiding Member Reports.** The Commissioners reported on their recent activities.
16. **Chief Counsel's Report:** None.
17. **Executive Director's Report.** The Executive Director gave a report.
18. **Public Adviser's Report.** The Public Adviser gave a report.
19. **Public Comment:** None.

Appearances:

(*by telephone)

*Timothy Cody, Mt. Diablo Unified School District

*Helio Brasil, Mcswain Elementary School

Scott Galati, DayZen LLC

James Kiefer, J-Power USA

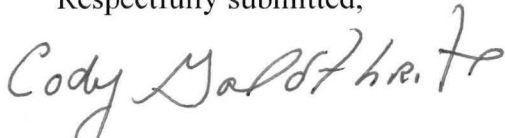
Rick Brown, TerraVerde

Anna Ferrera, School Energy Coalition

Ross Gould, Sacramento Municipal Utility District

There being no further business, the meeting was adjourned.

Respectfully submitted,



CODY GOLDTHRITE
Secretariat

